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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/508,939	07/06/2005	Kurt Frank	R.302449	5221
2119	7590	02/08/2006	EXAMINER	
RONALD E. GREIGG GREIGG & GREIGG P.L.L.C. 1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314			MOULIS, THOMAS N	
			ART UNIT	PAPER NUMBER
			3747	

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase "...the armature plate (46) being disposed on the connection end of the housing component (41) of the pressure regulating valve (12)..." is indefinite. The connection end of the housing component has not been defined.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 15 and 24-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Ricco US 6,131,829. The reference discloses a regulating valve for a fuel injection system of an internal combustion engine having an adjustable housing component which includes a deformable region. See Figures 1-3 showing a compressible washer

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76 made of elastically compressible material provided between the flange 73 and the shoulder 74 to adjust the position of the armature. The housing is assembled using flange 73, the shoulder 74 and the washer 76—therefore the washer is considered to be a housing component.

2. Regarding claim 24, note that the armature includes a plate 37 and an air gap below the plate and the housing which surrounding housing.

3. Regarding claim 25-26, note element 47 acts as a seat ring and includes a throttle restriction 43 therein.

4. Regarding claim 27, note the deformable region 76 extends in the axial direction between a sealing element (O ring near threads 64) and the seat ring 47.

Regarding claim 28, note the deformation is dependent on the mounting force applied to mounting element, or nut ring 96. See columns 2-3 for discussion of the device.

#### ***Allowable Subject Matter***

5. Claims 16-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### ***Conclusion***

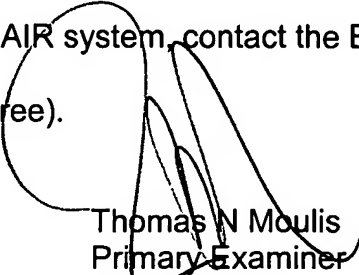
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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the cited documents showing electromagnetic valves having adjustments of various forms.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas N. Moulis whose telephone number is 571 272 4852. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thomas N Moulis  
Primary Examiner  
Art Unit 3747

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